

L 43576-65

ACCESSION NR: AT5009586

10 mm. Since these were far from homogeneous, specimens measuring 100 x 30 x 2 mm were cut from the more homogeneous outer layers and annealed again for 6 hours at 510 C, established by experiment to be the best homogenizing temperature. The specimens were then cold rolled to a thickness of 0.3 mm after two 20-minute reheat at 420 C, in order to produce a fine-grained structure consistently throughout the metal, which proved to have 110 - 120 grains per mm². In order to induce crystallization during the next heating, the bars were distorted by elongation amounting to 0.5 - 4.7% and the critical elongation was found to be between 2 and 4%, since recrystallization was imperfect after less stretching and a greater elongation produced polycrystals. The bars were then heated at the recrystallization temperature in molten potassium nitrate in a nickel crucible at 535 C, maintained within +2C for five days, after which they were allowed to cool while the bars were agitated by an electronic multi-vibrator. As the bars were dipped into the cooling melt, crystals formed above the metal surface, always at the same temperature zone. Crystal sizes are described as being dependent upon the speed at which the rods were immersed in the melt. Substantially the same process was repeated with AlAgCuSi alloys and proved equally successful in producing single crystals.

Orig. art. has: 1 figure.
ASSOCIATION: Ustav technicke fysiky CSAV, Prague (Technical Physics Institute, CSAV)

Card 2/3

1. In view of experience with similar tasks in previous periods
of flight operation at airports employed, personnel of
operator (Telecom 861-800) will...

2. In case of solid state failure of the Czechoslovak
Academy of Sciences, Prague, "Krohn-Kirkele" is.

DR. , inclav

Experiences with clinical use of MY 101. nozhl. chir. 36 no.2:119-22
Feb 57.

1. Chirurgicke oddeleni KUNZ Karlovy Vary, prednosta prim. MUDr. Viktor
Sachtfeldl.

(MUSCLE RELAXANTS, ther. use
glyceryl-guaianolate, indic. (Cz))

VACIAV SIMA (Karlovy Vary, KUNZ.)

Cardiac arrest on the operating table in Adams-Stokes-Morgagni syndrome.
Cas. lek. cesk. 97 no.27-28:862-865 4 July 58.

1. Chirurgicke oddeleni KUNZ Karlovy Vary. Prednosta: prim. MUDr. V. Wachtfeidl.

(GASTRECTOMY, compl. dehiscence, peron. cardiac arrest in Adams-Stokes synd. (Cz))

(CARDIAC ARREST, in stomach dehiscence surg. after gastrectomy, in Adams-Stokes synd. (Cz))

(HEART BLOCK, case reports, Adams-Stokes synd. in surg. of postgastrectomy dehiscence, cardiac arrest (Cz))

SIMA, Vaclav; KOVAR, Lubos

Appendectomy in infiltrates. Cas.lek.cesk. 98 no.43:1355-1358
23 0 '59.

1. Chirurgicke oddeleni KUNZ Karlovy Vary, prednosta primar MUDr.
Viktor Wachtfeidl.
(APPENDECTOMY)

SIMÁ, V.

Thyrotoxicosis in Hashimoto's disease. Rozhl.chir.39 no.11:
753-757 N°60.

1. Chirurgicke oddelení KUNZ Karlovy Vary, prednosta urim.
MUDr. V. Wachtfeidl.
(THYROIDITIS compl)
(HYPERTHYROIDISM etiol)

SIMA, Vaclav

The importance of roentgenological examination in the diagnosis of
intracanicular fibroadenoma of the breast. Rozhl. chir. 40 no.7:
493-495 J1 '61.

1. Chirurgicke oddeleni KUNZ Karlovy Vary, prednosta prim. MUDr.
V. Wachtfeidl.

(BREAST NEOPLASMS radiography)
(ADENOFIBROMA radiography)

SIMANOVSKÝ, Č.

Microscopic changes in periodontal fibers of supra-alveolar
tissue packets. Česk. st. mat. 65 č. 2:85-28 Mz 1965

1. Vyzkumný ústav stomatologický v Praze (reditel: prof. dr.
J. Kočík).

Pinsack, F.

Television antenna at the Petrin observation tower. p. 131.
INKENYRSKE STAVEBY. (Ministerstvo stavebnictvi) Praha. Vol. 2,
no. 4, April 1954.

Source: EEAL LC Vol. 5, No. 10 Oct. 1956

VANEK, T., inz. (Prague); SIMACEK, F., inz. (Prague)

Results of tests of the Elmafix, Mirofix, and Miroplast adhesives,
and their use in reinforced concrete constructions. Stavivo 43
no.2:57-59 '65.

1. Submitted September 1964.

SIMACEK, J.
CA

Electrochemical tests for oils used as anticorrosion -
points. V. Čapek and J. Simáček. Chem. Listy 41, 178-
182 (1947).—Corrosion of a metal is promoted by changes
in the nature of the protective oil film. These changes
can be followed by measuring the elec. cond. of the oil
film by means of a pair of electrodes of different metals.
App. has been designed and tests with several oils are de-
scribed.

SHAWIN, C. : MICH., I.

"We Should Pay More Attention to Workshops of Industrial Schools", I.^o
(Educazione Popolare, Vol. 2, No. 11, Apr. 1954, India, Gazzettino levigato)

"A: Lectures on the West European Accessions, (EEAL), IC, Vol. 4,
No. 1, Jan. 1954, India.

SIMACEK, RADOVAN, COMP.

Czechoslovak economy in a nutshell, 1948. Prague, Ministry of Foreign Trade,
Press Inst., 1948
92 p. illus., map, tables.
Translated from the original Czech.

5.2400A

81740

Z/009/60/000 06/008/036
E112/E153

AUTHOR: Vladislav Šimáček
TITLE: Preparation of Powdered Boric Anhydride
PERIODICAL: Chemický Průmysl, 1960, No 10, pp 304-305

ABSTRACT: The conventional methods for the preparation of boric anhydride are based on the dehydration of boric acid by its heating at elevated temperatures until the escape of water vapours from the molten material ceases. The material produced in this way is very hard and glass-like and is very difficult to pulverize. The author has now modified, for the production on a bigger scale (up to 500 gms), a method described previously by Tiede and Ragoss (Ref 1), which was, however, only suitable for the preparation of small quantities (3 gms) of boric anhydride. The method of the German authors consisted of a slow heating of boric acid in vacuo over phosphorus pentoxide. The present author describes apparatus and details of procedure for the preparation of boric anhydride in bigger quantities. The crystalline boric acid is heated slowly under a vacuum of 3-10 mm Hg to 200-250 °C. It is essential to observe during the heating a time-temperature

Card 1/2

X

81740

Z/009/60/000/06/008/036
E112/E153

Preparation of Powdered Boric Anhydride

gradient. If the rise in temperature is greater than that given in a graph then the water vapours are not removed quickly enough. The boric acid melts and produces a caked material, filled with bubbles, which it is very difficult to pulverise. A sketch of the apparatus is given. The yield of powdered boric anhydride amounted to 99.2% of theory.

There are 2 figures and 1 German reference.

ASSOCIATION: Výzkumný ústav sdělovací techniky, Praha
(Research Institute of Radio Communication
Techniques, Prague)

SUBMITTED: March 1, 1960

Card 2/2

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001550620004-8

HYNEK, Kristian, inz.; SIMACEK, Vladislav, inz.

Organic semiconducting materials. Sdel tech 10 no. 3:84-87 March '62.

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001550620004-8"

SIMACHEV, D.K., inzh.

Development and introduction of types of construction and road
machinery and equipment for the building materials industry.
Stroi. i dor. mash. 7 no.5:7-9 My '62. (MIRA 15:5)
(Construction equipment industry)
(Road machinery industry)

MATSEVSKIY, V.I.; SHIMACHEV, D.K.; INZH.

Designers of overall mechanization of the loading, transport,
and unloading of cement. Strct. i dcr. mach. 9 no.88
(MIRA 1831)
M. R. Ag. 164

AUTHOR: Simachev, L.V., Peleshuk, M.I., Gekhtman, D.Ya.,
Shpeyyer, N.A., Pryakhin, L.G. and Gerasimov, V.I.

68-1-10/21

TITLE: Comments on the Paper of R.Z. Lerner "On Changes in the
Composition of the Coke Oven Department for a Considerable
Increase in the Number of Coke Ovens in a Battery".
(Otkliki na statyu R.Z. Lernera "Ob izmenenii komponovki
koksovogo tsekha dlya znachitel'nogo uvelicheniya chisla
pechey v batareye")

PERIODICAL: Koks i Khimiya, 1957, No.1, pp. 35 - 36 (USSR)

ABSTRACT: These relate to the paper published in Koks i Khimiya,
1956, No.4. The authors agree with the proposals of R.Z.
Lerner (batteries of 100 ovens) and consider that 4 batteries
of the proposed type should be urgently designed.
There is 1 table.

ASSOCIATION: Glavmekhanomontazh and Koksokhimmontazh.

AVAILABLE: Library of Congress
Card 1/1

SIMACHEV, L.V., inshener.

Methods for increasing labor productivity in assembling the
technological equipment. Stroi.prom. 35 no.3:5-10 Mr '57.
(MLRA 10:4)
(Pipe fitting) (Factories--Equipment and supplies)

SIMACHEV, L.V., inzh.; LEVIN, M.L., inzh.

Erecting sintering factories. Nov. tekhn. i pered. op. v stroi.
20 no.3:11-16 M '58. (MIRA 11:3)
(Sintering) (Precast concrete construction)

SIMACHEV, L.V., inzh.; POKFIR'YEV, P.S., inzh.

Organization of assembling and special operations on the construction sites of the West Siberian metallurgical plant. Nov. tekhn.mont. i spets.rab. v stroi. 20 no.12:1-7 D '58.
(MIRA 12:1)

1. Ministerstvo stroitel'stva RSFSR.
(Kemerovo Province--Metallurgical plants)
(Precast concrete construction)

NIKOLAYEVSKIY, Ye.Ya., inzh.; EYDEL'NANT, L.B., inzh.; DAVYDOV, A.M.,
inzh.; SIMACHEV, L.V., red.; BATENCHUK, A.N., inzh., red.; IPATOV,
P.P., inzh., red.; KRYLOV, V.A., inzh., red.; PELESHUK, M.I.,
inzh., red.; PITERSKOV, N.I., red.; SHUBOV, L.B., red.

[Instructions for industrial safety measures in the assembly of
technological equipment and piping] Instruktivnye ukazaniia po
tekhnike bezopasnosti pri montazhe tekhnologicheskogo oboru-
dovaniia i truboprovodov. Izd.2., perer. i dop. Moskva, TSentr.
biuro tekhn.informatsii, 1959. 160 p. (MIRA 13:6)

1. Russia (1917- R.S.F.S.R.) Ministerstvo stroitel'stva. Glav-
metallurgmontazh. 2. Glavnnyy inzhener Glavmetallurgmontazha
Ministerstva stroitel'stva RSFSR (for Simachev).
(Industrial safety)

KRYLOV, V.A.; SIMACHEV, L.V.; GURVITS, A.I., inzh.. nauchnyy red.; VOLNYANSKIY, A.K., glavnnyy red.; SOKOLOV, D.V., zam.glavnogo red.; TARAN, V.D., red.; SREBRENNIKOV, S.S., red.; MIKHAYLOV, K.A., red.; STAROVEROV, I.G., red.; VOLODIN, V.Ye., red.; NIKOLAYEVSKIY, Ye.Ya., red.; GORDEYEV, P.A., red.izd-va; UDOD, V.Ya., red.izd-va; KL'KINA, E.M., tekhn.red.

[Reference book on special work; mechanical assembly work in industrial construction] Spravochnik po spetsial'nym rabotam; mekhanomontazhnye raboty v promyshlennom stroitel'stve. Moscow, Gos.izd-vo lit-ry po stroit., arkhit. i stroit.materialam, 1960. (MIRA 14:4)
498 p.
(Machine-shop practice)

KRYLOV, V.A.; GURVITS, A.I., inzh., retsenzent; SIMACHEV, L.V., inzh.,
retsenzent; YEZDCKOVA, M.L., red.izd-va; ISLENT'YEVA, P.G.,
tekhn. red.

[Installation of metallurgical equipment] Montazh metallurgi-
cheskogo oborudovaniia. Moskva, Metallurgizdat, 1963. 289 p.
(MIRA 16:8)

(Iron and steel plants--Equipment and supplies)

SIMACHEV, M.D.

Violations of All-Union State Standard requirements in industrial designs. Standartizatsiia no.6:68 N-D '56. (MLRA 10:1)

1. Giprosvyaz'.
(Design, Industrial--Standards)

KOSTYUK, M.I.; GREBNEV, S.K.; AKSENDOV, A.A.; OSTAPENKO, P.YE.; SIMACHEVA, N.A.

Improving the granular composition of sintered Krivoy Rog ores. Stal'
17 no.2:114-118 F '57.
(MIRA 10:3)

1. Drobil'no-sortirovchnaya fabrika shakhty "Pobeda" i Nauchno-
issledovatel'skiy gornorudnyy institut.
(Krivoy Rog--Sintering)

SIMACIK, Frantisek, inz.; BKRTA, Frantisek, promovany chemik

Effect of water soaking of Scotch pine (*Pinus sylvestris L.*)
seed. Les cas 10 no. 8733-744 Ag'64

1. Slovak Academy of Sciences, Arboretum, Mlynany.

Czechoslovakia/Chemical Technology -- Chemical Products and Their Application.
Silicates. Glass. Ceramics. Binders, I-9

Abst Journal: Referat Zhur - Khimiya, No 1, 1957, 1679

Author: Tichomirova, V., and Simackova, O.

Institution: None

Title: Discussion of Chanek's Article "A Rapid Method for the Analysis of
the Raw Materials Used in Cement Factories"

Original

Periodical: Stavivo, 1956, Vol 34, No 4, 157; Czech

Abstract: Available data on the application of complexometric titration in the
determination of CaO and MgO in cement raw materials confirm the
fact that this method gives results comparable to those obtained by
the classical methods. See Referat Zhur - Khimiya, 1956, 65791.

Card 1/1

Sirnáčková, Olga

4

Chen 3

Determination of calcium in the presence of a large excess
of magnesium. Vlasta Líthmárová and Olga Šimáčková
(Výzk. instav stav. hmot. Brno, Czech.), Čes. Čas. 50,
- 1925-7(1936).—A complexometric method is described for
the analysis of all carbonates and silicates with ethylene-
diaminetetraacetic acid in a strongly alk. medium by using
a mixt. of inurexide and Naphthal Green B as indicator.
Addn. of tartaric acid (up to 200 mg.) prevents ptin. of
MgO (up to 50 mg.). Interfering SiO₂ is removed by boil-
ing the sample with HCl or by evapn. with HF; Al and Fe
are masked with (CH₃CH₂OH)₂N.HCl and KCN.

L. Líthmárová

AM OK

Cirickova, B.; Tichomirova, V.

The use of complexon in the chemical analysis of materials, clinkers, and clay rich in magnesium. p. 315.

(Stavivo. Vol. 3, no. 3, Mar. 1957. Praha, Czechoslovakia)

Re.: Monthly List of East European Accessions (BERI) 1C, Vol. 6, no. 10, October 1957. Unclassified

2000 RELEASE UNDER E.O. 14176

Country: Russia

Ambit of Origin: Engineer

Affiliation: not given

Source: such root, Revista de Geodetica si Organizarea Teritoriului,
Vol. 5, No 2, 1961, pp 75-76.

Date: "The Method of Soil Mapping in the Pre-Caspian Depression on
Aerophotogrammetric Materials", - a review of Simacova's
"Metodika kartirovaniia ravnii prekaspiskoi nizmenosti po materialam
aerofotosioskki" included in: Paciifichno-geograficheskie issledovaniia
i formirovaniye aerofotosioskki v kartirovaniii ravnii, Moscow, 1957.]

L 27890-66

ACC NR: AP5026538

SOURCE CODE: UR/0286/65/000/019/0081/0081

AUTHORS: Kitayev, Yu. V.; Simagin, A. V.; Malyshov, V. A.

5
B

ORG: none

TITLE: A device for testing a diving respiratory apparatus. Class 42, No. 175262

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 19, 1965, 81

TOPIC TAGS: respirator, pressure regulator, automatic pressure control

ABSTRACT: This Author Certificate presents a device for testing a diving respiratory apparatus. The device contains a sensitive element in the form of a membrane dividing the casing into two compartments and directing the flow of a gas stream through a nozzle regulated by a measuring element (see Fig. 1). To broaden the limits of testing pressure without destroying the sensitive element, the nozzle-containing chamber of the device is provided with a valve and an auxiliary membrane which is equal to the effective size of the membrane and which directs the valve. The valve and the auxiliary membrane regulate the pressure delivered by a source of compressed air in response to the tested pressure.

UDC: 626.025.001.4

Card 1/2

L 27890-66

ACC NR: AP5026538

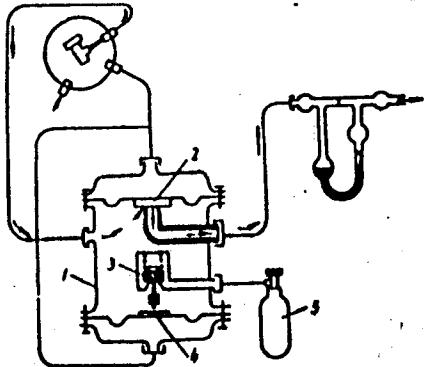


Fig. 1. 1- chamber;
2- nozzle; 3- valve;
4- membrane;
5- source of compressed
air

Orig. art. has: 1 figure.

SUB CODE: IE/

SUBM DATE: 01Jul63

Card 2/2 Jp

SIMONIN, E.I. (Moskva, Tomilina, ul. Gogol'ya, 19, kv. 16)

Different innervation of the parietal fascia of the crura and
false pelvis in man. Arkh. anat., glist. i embr. 45 no.12:23-29
(MIRA 17:8)
D '63.

1. Kafedra normal'noy anatomi (zav. - prof. V.V. Kupriyanov)
2-go Moskovskogo gosudarstvennogo meditsinskogo instituta
imeni Pirogova.

KURPYANOV, V.V.; SIMAGIN, E.I.

Report on the sessions of the Moscow Scientific Society of
Anatomists, Histologists and Embryologists in 1963-1964.
Arkh. anat., hist. i embr. 49 no.9:115-116 S '65.
(MIRA 18:12)

1. Predsedatel' Moskovskogo nauchnogo obshchestva anatomov,
histologov i embriologov (for Kupryanov). 2. Sekretar'
Moskovskogo nauchnogo obshchestva anatomov, histologov i
embriologov (for Simagin).

SEMEBRYAKOV, A.M., kand.tekhn.nauk; KOL'TSOVA, V.A., inzh.; Prinimali
uchastiyet SIMAGINA, O.S., inzh.; GNENKOVA, Ye.Ye., inzh.; ZEMSKAYA,
L.I., inzh.; ALEKSEYEVA, T.A., inzh.

Continuous method for dyeing all-wool and semi-wool dress fabrics.
Continous method for dyeing all-wool and semi-wool dress fabrics.
Nauch.-issel.trudy TSNII Shersti no.18:102-115 '63.
(MIRA 18:1)

Soviet Inventor's Card

(6) **AUTHORS:** Makarov, V. P.; Ponomareva, A. N.
TYPE: Scientific All-Union Competition for the Best Student-Created All-Purpose Competitive (Scientific, Technical, and Chemical Technology for the Paper-Processing Industry) and Chemical Technology for the Paper-Processing Industry (Chemical, Veterinary, Metallurgical, and Chemical Technologies).
PERIODICAL: Vestn. Akad. Nauk SSSR, Ser. 1, No. 1, 1951-1952 (Russian)

ABSTRACT: The Ministerial Committee of the USSR carried out the competition for the best student-creations of the USSR (Ministry for Education and Science) in the title "Vitam the fragrance of the student-inventor" (Scientific, Technical, and Chemical Technologies) competition (77 subjects of science, technology, and industry). The Leningradsky Technological Institute (Leningrad Polytechnic Institute) was the first place laureate (Institute of Chemical Technology and Technology of Chemical Products). A committee of professors V. I. Almazov, V. P. Makarov (Chairman), V. P. Makarov, A. N. Ponomareva, V. V. Savchenko, G. N. Sosulin, T. A. Tsvetkov, and candidates of Sciences D. S. Bogatikov (Secretary). The following prizes were awarded: I. N. Ponomareva (Secretary); The Professor A. P. Alyabyev, A. N. Chizhevskiy, I. S. Joffe, N. V. Kryukikhina, L. Ye. Grunzev, A. B. Kuznetsov, A. N. Mal'ev, I. F. Maksimchikov, L. P. Maksimchikov, V. V. Moshkarev, V. V. Nekrasova, E. M. Popova, Yu. N. Seregin, V. V. Seregin, and Z. A. Vaynshteyn; A. V. Salnikov, A. V. Stepanov, and Z. A. Vaynshteyn (collaborators). Prof. A. N. Makarov, O. V. Ponomareva, A. Ye. Shabotin, L. M. Rostovtsev, V. V. Saltyanov, G. P. Sisikov, I. A. Dyakonov, A. G. Savenkov, S. A. Tikhonov, P. N. Sosulin, P. N. Sosulin, A. P. Smirnov, A. P. Smirnov, G. N. Sosulin, and V. V. Sosulin (collaborators).

Card 1/3
 The V. V. Moshkarev, with the collaborator, E. M. Popova, Yu. N. Seregin, V. V. Seregin, and Z. A. Vaynshteyn, A. V. Salnikov, A. V. Stepanov, and Z. A. Vaynshteyn (collaborators) received the second prize. The paper "Synthesis and Self-Organization of the p-31-Secundary Poly(Alkenes) by V. S. Seregin" (Fifth student of the Voronezh University) was awarded a medal for being the best. The second medal is the one of the best student-creations of the University of the Soviet Union (Togliatti University). E. P. Sosulin, the author of the paper "Synthesis of the Secondary Catalyst Components of the Polymerization of Vinylidene Chloride" (University student of the Voronezh University) was awarded a medal for being the best. The third medal is the one of the best student-creations of the Voronezh Chemical-Technological Institute (Voronezh Chemical-Technological Institute). D. V. Babkov, A. I. Sosulin, V. V. Sosulin, and E. B. Sosulin for their paper "Walled of Continuous Regenerators of Zinc-Alkalide Free Basic Salt of the Liseznaya Fibre Factory". Besides these three papers, the committee selected further papers which deserve publication owing to their novelty and originality. The paper "Utilization of Morpholine Oxime for the Production of Local Construction-Molding Materials" by the Professor - candidate of the Institute (see above); A. V. Tschilova and A. A. Tschilova, editor of the Institute of the Preparation of Polymers, "Polymerization of the Butadiene, Propylene, and Acrylic Acid Derivatives, Based on the Molecular Weight" by the Third - president of the Moscow

Card 2/5

Card 3/5

Chemists. All-USSR Competition for the Best
Student Paper Generating Chemistry and Chemical Technology for the
Soviet Union
Academic Year 1957-1958

Chemical Industry Institute Lecturer Prokof'ev (Incorporated)
Technological Institute for Light Industry) V. N. Dordilov,
Study of the Chemical Polarization at the Preparation
of Chemical Compounds by the Picture-
method (Institute of the Chemical Technology of the Soviet Union (Ural
Polytechnical Institute) G. S. Repetov)
Automation from Safety Considerations by the Five-year
Students of the Research Institute of Technological Institutes
Liman D. I. Kudryavtsev, (Russia Chemical-technological Institute
State Lenin D. I. Mandel'son) A. V. Oshkin, V. A. Borisov, and
M. Brashl' (Joint Investigation of the Paleontology of Rubera
Ceratitinae (Bacteriology) by the Fourth-year students of the
Tula Polytechnical Institute (Tula Polytechnical Institute-
and Institute) G. I. Kondratenko and T. A. Shevchenko,
Development of the Carbolic and Acetic Processes at Gold-
plating by the Fifth-year student of the Industrial Tech-
nological Institute (Tula Polytechnical Institute (Tula Polytechnical
Institute Institute of Technology and Technique) R. A. Berezin, General Director
of Polytechnics and Techniques (Tula Polytechnical Institute)
by the Third-year student of the Kharkov Polytechnical
University (Kharkov State University) V. A.
Capture of Bacteriosphere by Students in Four-year edition
by the Fifth-year students of the Maritime Technological
Institute (Kazan Chemical-technological Institute)

Case 4/5

STEPANOV, A.S.; BORINOVA, A.G.; SIMAGINA, T.V.; PESKOV, G.D.

Use of the 43M phtalocyanine blue in printing. Tekst.prom.
22 no.11:56-58 N '62. (MIRA 15:11)

1. Sotrudnik Ivanovskogo nauchno-issledovatel'skogo instituta khlopcatobumazhnay promyshlennosti (IvNITI) (for Stepanov).
2. Rabotniki Kokhomskogo khlopcatobumazhnogo kombinata (for Barinova, Simagina, Peskov).
(Textile printing) (Phtalocyanine)

SIMENKA, Vera Aleksandrovna

Materials to the Question of the Participation of Red Corpuscles
in Exchange of Water

Dissertation for the Degree of Doctor of Medical Science. Chair of
Prophylactics of Internal Diseases (head, Prof. L.A. Varschanov) Saratov
Medical Institute, 1947

SIMAGINA, V.A., professor; VYALYKH, V.I.

Experience in dispensary treatment of agricultural workers in
Chkalov Province. Sov. med. 18 no.11:35-38 N '54. (MLRA 7:12)

1. Iz kafedry obshchey terapii (zav. prof. V.A.Simagina) Chkalov-
skogo med. instituta i Chkalovskoy klinicheskoy bol'ницы (glav.
vrach V.I.Valykh)

(CLINICS
in Russia, dispensaries for agricultural workers)

(OUTPATIENTS, SERVICE
in Russia agricultural workers)

USSR/Microbiology - Medical and Veterinary
Microbiology

F-6

Abs Jour : Ref Zhur-Biologiya, No 1, 1957, 723
Author : A. A. Uvarov, V. A. Simgine, and B. G.
Khaykina
Inst Title : Dynamics of Immunological Reactions and
Bacteremia in Brucellosis
Orig Pub : Tr. Chakalovskovo med. in-ta, 1955, No 3,
133-144

Abstract : It was found that the dynamics of the
Rayt reaction titers and the indices of
the phagocyte reaction do not reflect
the entire sum of immunological processes
which take place in the organism of the
patient. In low indices of such reac-
tions the organism may successfully

Card 1/3

USSR/Microbiology - Medical and Veterinary
Microbiology

F-6

Abs Jour : Ref Zhur-Biologiya, No 1, 1957, 723

Abstract : resist the action of brucella, and to the contrary, upon considerable concentration of antibodies the course of brucellosis may be prolonged and serious, with relapses and even a lethal termination. The dynamics of the isolation of Brucella from the blood and of freeing the organism of the patient of brucella, as well as of the partial disappearance of Brucella from the blood are determined not only by its phagocyte activity but also by the entire protective mechanism of the organism. In vaccinotherapy, brucella remained in the blood of a

Card 2/3

USSR/Microbiology - Medical and Veterinary
Microbiology

F-6

Abs Jour : Ref Zhur-Biologiya, No 1, 1957, 723

Abstract : considerable number of the patients even
when their general condition improved.
It is therefore necessary to investigate
the possibility of the therapy of bruce-
llosis with a vaccine in combination with
chemotherapy.

Card 3/3

DRANKIN, D.I.; SIMAGINA, V.A.

Clinical and epidemiological characteristics of brucellosis in persons vaccinated with the dry living vaccine developed by the Institute of Epidemiology and Microbiology of the Academy of Medical Sciences of the U.S.S.R. Zhur.mikrobiol.epid. i immun. no.7:42-47 J1 '55.

(MLRA 8:9)

(BRUCELLOSIS, prevention and control,
vacc., dry living vaccine, course of postvaccinal infect.)
(VACCINES AND VACCINATION,
brucellosis, dry living vaccine, course of postvacci-
nal infect.)

SIMAGINA, V.A., prof.; DUBROVCHENKO, L.P. (Chkalov)

Venous pressure in hypertension. Klin.med. 35[i.e.34] no.1
(MIRA 11:2)
Supplement:6 Ja '57.

1. Iz kafedry obshchey terpaili (zav. - prof. V.A.Simagina)
Chkalovskogo meditsinskogo instituta.
(HYPERTENSION) (BLOOD PRESSURE)

SIMAGINA, V. A., prof.; SALINA, V. V.

Protein formula of the blood in patients with nonspecific pulmonary pathology. Terap. arkh. no.7:68-73 '61. (MIRA 15:2)

1. Iz fakul'tetskoy terapevicheskoy kliniki (zav. - prof. V. A. Simagina) Orenburgskogo meditsinskogo instituta.

(BLOOD PROTEINS) (LUNGS—DISEASES)

MARKOVIC, O.; SELNECKY, F. V.; SIMAGJAKOVA, J.

The use of mucin from flax seed for preparation of crystalline suspension of estrogens. Cesk. farm. 4 no.5:243-246 June 55.

1. Zo Slovenskej akademie vied, Chemicky utav, oddelenie experimentalnej farmakologie, Bratislava Z Ustavu farmaceutickej prevadzky Farmaceutickej fakulty UK v Bratislave.

(PLANTS
flax, mucin from, use in prep. of crystalline
suspension of estrogens)

(ESTROGENS
prep. of crystalline suspension, use of mucin
from flax seed.)

SIMAI, Mihaly

The "Council of gods" is together again. Elet tud 16 no.47:1483-1487
19 N '61.

SIMAIKA, J.

✓
1-FW

Siniakka, J. Sur une mesure de la dispersion d'une distribution de directions. Bull. Acad. Polon. Sci. Cl. III. 4 (1956), 753-756.

Consider a distribution function F on the circle and write $\Re(\cdot) = f(\cdot)F(d\theta)$. The author has shown [C. R. Acad. Sci. Paris 241 (1955), 1375-1377; MR 17, 500] that the angle $\alpha = \arg \Re(e^{i\theta})$ that minimizes

$$\Delta(\psi) = (\Re|e^{i\psi} - e^{i\theta}|^2)^{1/2}$$

has several advantages over the usual expectation $\hat{\theta} = \Re(\theta)$. Here, he suggests the angle

$$\beta = \cos^{-1} \Re(e^{i\theta}) = 2 \sin^{-1}(\Delta(\alpha)/2)$$

as a measure of the spread of F ; unlike the standard deviation $(\Re(\theta - \hat{\theta})^2)^{1/2}$, β is insensitive to rotations.

H. P. McKean, Jr. (Princeton, N.J.)

SIMAK, B.

CH

65-230

551.576.1.779

Bučý, M. A. and Šimák, B. Atlas horských mraků. Atlas nubium Skalnaté Pleso. [Cloud atlas, Skalnate Pleso.] Prague, Přírodovědecké Vydavatelství, 1953. 45 p. + 160 photos of clouds (many in color). Glossary in Czech, Russian, French and German p. 43-45. 7 refs. DWB—The plates are either half tones or color photographs. All the cloud types illustrated were photographed at Skalnate Pleso and the date, hour and wind direction for each photograph are given in Czech, French, German and Russian. Subject Headings: 1. Cloud atlases 2. Cloud photographs 3. Skalnate Pleso, Czechoslovakia.—I.L.D.

ME
JL

COUNTRY : USSR/USA, LA
CATEGORY : Chemical Technology, Technical Products and Their Applications, Corrosion, Corrosion Control.
ABS. JOUR. : RZhKhim., No 19, 1959, No. 6866

ABSTRACT : 1

ABSTRACT : 2 Effect of citric acid on the corrosion of tined steel.

ORIG. PUB. : Chem. - 956, 4, No 4, 124 - 130

ABSTRACT : The action of methocyanato-magnesium (III) contained in fruit preserves and on citric acid extracts of deliquescent salts (calcium lactate, del-hydroxybutyric acid and calcium dihydroxyacetone) was studied on Fe and Cr from the standpoint of corrosion, taking place in cups, containing fruit preserves. The tests, conducted in a galvanic element, iron and tin electrodes of which were shorted and immersed in a solution containing 10% sucrose and 1.5% citric acid and a certain quantity of P, indicated that P, contained in the solution, promotes the rate of corrosion; a linear dependency of the rate of

Card: 1/2

ABS. JOUR. : RZhKhim., No 19, 1959, No. 6866

ABSTRACT :

ABSTRACT :

ABSTRACT :

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550620004-8"

ABSTRACT :

ABSTRACT : An electrode dissolution on time was noted. The Zn-electrode dissolves very rapidly in the initial stage of the test, and then the rate decreases sharply. With the aid of spectrophotometric measurements, the decrease of P concentration, as a result of the formation of an insoluble Zn-complex with P, was established (Ref. Zhur. Khimiv, 1957, № 22, 73, 250). The measurements of current densities and of I_{DPF} revealed that P is a strong depolarizing agent. -- V. Berenfeld'd.

Card: 2/2

STAREK, Jaroslav, inz.; SIMAK, Vilém, inz.; BARVÍNEK, Jaroslav, inz., C.Sc.

Use of polyvinyl chloride packaging materials in the canning industry. Prum potravin 14 no.2:70-73 F '63.

1. Vyzkumný ustav lihovarsko-konzervarensky, Praha.

CZECH

Synthetic experiments in the estrogenic hormone series.
 II. Synthesis of crystalline ethyl 2-methyl-2-carbethoxy-5-(4-methoxyphenyl)cyclohexan-1-one-6-acetate. Jiri O. Jilek, Vladislav Šimák, and Miroslav Protiva (Farm. biochem. výzkumný ústav, Prague, Czech.). *Chem. Listy* 47, 874-80 (1953); *Collection Czechoslov. Chem. Commun.* 19, 333-9 (1954) (in English); cf. *C.A.* 47, 8034c.—The Friedel-Crafts reaction of *E*t 2-methyl-2-carbethoxy-5-cyclohexen-1-one-6-acetate (I) with MeOPh gave *E*t 2-methyl-3-carbethoxy-5-(*p*-methoxyphenyl)cyclohexan-1-one-6-acetate (II) which was transformed to 2-methyl-3-(*p*-methoxyphenyl)-1-cyclohexanone-6-acetic acid (III). 2-Carbethoxycyclohexanone (75 g.), 10 g. Na dust, and 250 ml. C₆H₆ refluxed 4 hrs., the mixt. treated with 75 g. BrCH₂CO₂Et, refluxed 5 hrs., decoupled with 200 ml. dil. HCl, and the C₆H₆ layer washed, dried, and distd. gave 84 g. (74%) Et 2-carbethoxycyclohexanone-2-acetate (IV), b_d 168-68°; CICH₂CO₂Et gave only 60% yield. Similarly was prep'd. the di-Me ester (42%), b_d, 153-5°. IV (24 g.) refluxed 8 hrs. with 2.4 g. Na and 35 ml. EtOH gave, after acidification and extn. 13 g. (64%) *E*t 2-carbethoxycyclohexanone-6-acetate (V), b_d, 130-45°. V (13 g.) refluxed 7 hrs. with 70 ml. C₆H₆ and 1.2 g. Na dust, cooled, treated with 10 ml. MeI, let stand 2 hrs. at room temp., then refluxed 2 hrs., yielded 8.5 g. (63%) *E*t 2-methyl-2-carbethoxycyclohexanone-6-acetate (VI), b_d, 110-20°, also obtained (b_d 160-7°), without isolating V, by refluxing 20 g. IV 8 hrs. with 2 g. Na in 30 ml. EtOH. Bromination of VI in CCl₄ yielded 84% *E*t 2-methyl-2-carbethoxy-6-bromocyclohexanone-6-acetate (VII), b_d, 144-7°.

Dehydrobromination of VII by refluxing with Me₄NPB₆ with collidine gave, resp., 78% and 85% I, b_d, 131-2°, b_d, 147-51°. I (20 g.) and 70 ml. PbOMe, treated at -5 to 0° with 30 g. AlCl₃, std. with HCl and worked up yielded 16 g. recovered I and 5 g. (90%) II, b_d, 200-10°, m. 84° (from C₆H₆). Sapon. of 0.4 g. II by refluxing 2 hrs. with aq. NaOH gave 0.3 g. III, m. 138°. Sapon. of IV with NaOH in MeOH gave 80% 1,2,6-hexanetricarboxylic acid, m. 86-7°, esterified with MeOH and HCl to 85% tri-Me ester (VIII), b_d 102-8°. Refluxing 4.9 g. VIII with 0.5 g. Na dust and 10 ml. C₆H₆ 18 hrs. in a N atm., dilg. 10 ml. MeI gave 3 g. (65%) Me 2-methyl-2-carbethoxycyclohexanone-6-acetate, b_d, 115-24°, which on bromination in CCl₄ yielded Me 2-methyl-2-carbethoxycyclohexanone-6-acetate, m. 90-3°. III. Synthesis of racemic 1-ethyl-2-methyl-9-methoxy-1,2,3,4-tetrahydro-2-phenanthrenecarboxylic acid. Miroslav Protiva and Ludvík Novák. *Chem. Listy* 47, 581-4.—Me 1-oxo-3-methyl-9-methoxy-1,2,3,4-tetrahydro-2-phenanthrenecarboxylate, m. 130-7° (I), was obtained by the following series of reactions: 1-naphthol → 1-C₆H₅OMe, b_d 140° (81%) → 4,1-MeOC₆H₄COCH₂CH₂CO₂H, m. 172° (quant.) → 4,1-MeOC₆H₄(C₆H₅)CO₂H, m. 120° (70%) → 1-oxo-9-methoxy-1,2,3,4-tetrahydrophenanthrene, m. 98-100° (80%) → Me 1-oxo-9-methoxy-1,2,3,4-tetrahydro-2-phenanthrenecarboxylate, m. 123-4° (90-5%) → boroxylate, m. 118-21° (90%). It gave estrogenically inactive 1-ethyl-2-methyl-9-methoxy-1,2,3,4-tetrahydro-2-phenanthrene.

Jiri O. Jilek

carboxylic acid (II). The Grignard reaction of [2 g.] I in 100 ml. C₆H₆ with EtMgBr prep'd. from 1.25 g. Mg and 5 ml. Et₂O in 50 ml. Et₂O yielded 8.5 g. (85%) *E*-1-hydroxy-1-ethyl-2-methyl-9-methoxy-1,2,3,4-tetrahydro-2-phenanthrene-carboxylate, m. 100° (from MeOH), dehydrated by boiling 1 hr. with POCl₃ in C₆H₆N, gave 72% *E*-1-ethylidene-3-methyl-9-methoxy-1,2,3,4-tetrahydro-2-phenanthrene-carboxylate (III), m. 117°, saponified with KOH in dil. EtOH at 140-70° to 80% free acid m. 223° (from Me₂CO), which, hydrogenated in dil. NaOH 4 hrs. at 50° and 80 atm. initial pressure over Raney Ni, gave after acidification, 85% II, m. 178° (from Me₂CO and MeOH). Refluxing 0.2 g. III 1 hr. with 1 g. Raney Ni in 20 ml. MeOH gave 0.17 g. (85%) *E*-Et analog of III, m. 147° (from MeOH). IV.

Synthesis of 9a-methyl-1,2,3,4,4a,9a-hexahydro-9-fluorenone. *Ibid.* 885-8. —Cyclization of the chloride of *I*-methyl-2-phenylcyclohexanecarboxylic acid (I), prep'd. by a series of reactions from Et-2-methylcyclohexanone-2-carboxylate (II), yielded 9a-methyl-1,2,3,4,4a,9a-hexahydro-9-fluorenone (III). II, b.p. 112°, (30.8 g.) in 30 ml. Et₂O boiled with PhMgBr (from 5.2 g. Mg and 31.4 g. PhBr) in 30 ml. Et₂O gave 67.74% *E*-1-methyl-2-phenyl-2-hydroxy-cyclohexane-1-carboxylate, b.p. 120°, dehydrated with POCl₃ in C₆H₆N to 72% *E*-1-methyl-2-phenyl-2-cyclohexene-1-carboxylate, b.p. 110° (IV). Sapon. of IV with KOH in dil.

EtOH at 140-80° gave 80% free acid (V), m. 135° (from aq. MeOH-Me₂CO). Hydrogenation of IV in EtOH over Raney Ni at 60° and 100 atm. initial pressure, gave 80% *E*-ester of I, b.p. 145°, hydrolyzed to 94% I. I, obtained in almost quant. yield by the hydrogenation of V in aq. KOH 3 hrs. over Raney Ni at 80° and 133 atm. initial pressure, m. 93° (from petr. ether). Crude I (10 g.) in 100 ml. Et₂O treated 90 min. with 8.5 g. SOCl₂, the Et₂O evapd., the residue稀釋 with 100 ml. C₆H₆, the soln. cooled, shaken 3 min. with 8 ml. SnCl₄, decompr. with ice and 50 ml. HCl, and the org. layer evapd. gave 5.2 g. (67%) III, b.p. 145-7°; 2,4-dinitrophenylhydrazones, m. 123° (from EtOH). M. Hudlicky.

SIMAK, V.

EXNER, O.; SIMAK, V.; JILEK, J.O.; PROTIVA, M.

Synthesis in the estrogens hormones group. Part 1. m-methoxyphenylacetylene
[in English with summary in Russian]. Sbor.Chekh.khim.rab. 19 no.2:330-
332 Ap '54. (MLRA 7:6)

1. Pharmaceutical and Biological Research Institute, Prague.
(Estrogens)

SIMAK, V.

JILEK, J.O.; SIMAK, V.; PROTIVA, M.

Synthesis in the estrogenic hormones group. Part 2. Synthesis of
crystalline ethyl 2-methyl-2-carbethoxy-5-(4-methoxyphenyl) cyclohexan-
1-one-6-acetate [in English with summary in Russian]. Sbor.Chekh.khim.
rab. 19 no.2:333-339 Ap '54. (MLRA 7:6)

1. Pharmaceutical and Biochemical Research Institute, Prague.
(Estrogens)

Simek, Vladislav

Local anesthetics. III. Sulfonium salts. Miroslav Protiva, Vladislav Šimák, Vladimír Hach, and Otto Exner (Výzkumný ústav farm. biochem., Prague). *Chem. Listy* 49, 222-6; *Collection Czechoslov. Chem. Commun.* 20, 810-16 (1955) (in Russian); *C.A.* 49, 979e.—Sulfonium analogs of hydrochlorides of basic esters of some aromatic acids were prep'd. and found to be effective as local anesthetics. Heating 8.26 g. ρ -H₃NCH₂CO₂CH₂SH, m. 90° (from Et₂O-petr. ether or EtOH). Refluxing 28 g. ρ -BuOC₂H₅COCl (b.p. 100-3°) and 12.3 g. I in 50 ml. C₆H₆ 2.5 hrs. and distg. the mixt. gave 29.2 g. ρ -BuOC₂H₅CO₂CH₂SH, b_{10} 148-55°, b_{20} 164-6°; methiodide, m. 93-4° (from Me₂COEtOH). Mixing 21.5 g. ρ -MeC₆H₄CH₂:CHCOCl (II) in 50 ml. C₆H₆ with 10.2 g. I, refluxing the mixt., after the spontaneous boiling, 1.5 hrs., and distg. the mixt. *in vacuo* yielded 10.7 g. ρ -MeO-C₆H₄CH₂:CHCO₂CH₂SH, b_{10} 195-8°, b_{20} 170-1°; methiodide, m. 125-6° (from EtOH). Adding 16.1 g. MeSCH₂CH₂SH in 50 ml. C₆H₆ to NaOEt prep'd. from 3.4 g. Na in 76 ml. EtOH, distg. off the mixt. of EtOH and C₆H₆ with continuous feeding of C₆H₆ so that all EtOH was removed (after 3 hrs.), concg. the soln. to 75 ml., treating the residue with 29 g. II in 75 ml. C₆H₆, refluxing 2 hrs., dilg. the soln. with 75 ml. H₂O, washing the C₆H₆ layer twice with 75 ml. H₂O, and distg. gave 19.8 g. ρ -MeOC₆H₄CH₂:CH-COSCH₂CH₂SH (III), b_1 182-90°, m. 45-6°; 2lta.Mel, C₆H₅IO₃, m. 108° (from EtOH). Refluxing a mixt.

of 15 g. MeSNa in 100 ml. EtOH with a soln. of 30 g. 2,4-Me₂C₆H₃NHCOCH₂Cl in 200 ml. EtOH 2.5 hrs., filtering off the NaCl, evapg. the filtrate, shaking the residue with 150 ml. Et₂O and 180 ml. H₂O, and evapg. the ether soln. *in vacuo* gave 20.6 g. 2,4-Me₂C₆H₃NHCO₂CH₂SH, m. 147-8° (from petr. ether); methiodide, m. 102-3° (from EtOH-Me₂CO). Refluxing 3 g. MeSNa in 20 ml. EtOH with 6.5 g. N-(chloroacetyl)-2-methyl-5,6,7,8-tetrahydro-1-naphthylamine in 100 ml. EtOH 2.5 hrs., removing the NaCl, and shaking the evapd. filtrate with 100 ml. C₆H₆ and 100 ml. H₂O gave, after chromatography of the benzene layer, 4 g. N-(methylmercaptoacetyl)-2-methyl-5,6,7,8-tetrahydro-1-naphthylamine, m. 146-7°. Satg. at -10° 500 ml. EtOH with NH₃, adding 50 g. MeSCH₂CH₂Cl, keeping the mixt. 6 days in the icebox, distg. on the EtOH, decomp'g. the residue with a soln. of 40 g. NaOH in 100 ml. H₂O, extg. with Et₂O, evapg. the Et₂O, dissolving the residue in 140 ml. HCl (1:6), extg. the insol. parts with Cd²⁺, alkalizing the soln. with 40 g. NaOH in 80 ml. H₂O, and extg. with ether gave 10% MeSCH₂CH₂NH₂ (III), b. 140-50°. Treating a soln. of 3 g. III in 25 ml. C₆H₆ with 7.8 g. 2-chlorocinchoninic acid in 25 ml. C₆H₆, shaking the mixt. with a soln. of Na₂CO₃, extg. the alk. layer with Et₂O, and working up the combined exts. yielded 4 g. 2-chlorocinchoninic- β -methylmercaptoethylamide (IV), m. 140-7°. Adding 3.6 g. IV to a soln. prep'd. from 0.2 g. Na and 35 ml. BuOH, heating the mixt. after 2 hrs. to 80° (4 hrs.) and refluxing it finally 3 hrs., shaking the cooled mixt. with H₂O, extg. the aq. layer with Et₂O, and evapg. the combined org. layers gave 2 g. 2-butoxycinchoninic- β -methylmercaptoethylamide, m. 107-8° (from EtOH-H₂O 1:3); methiodide, m. 108-10° (from EtOHEt₂O) (probably ammon-

MIROSLAV PROTIVA

lum salt). IV. *p*-Aminobenzoates of 4-piperidinomethyl-1,2-benzo-3-cycloalkanols. Vladimír Hach, Zdena Horáková, and Miroslav Protiva (Výzkumný ústav farm. biochem., Prague). *Chem. Listy* 49, 227-30 (1955).—Reduction of 2-piperidinomethylindanone (I) 2-piperidinomethyl-1-tetralone (II), and 4-piperidinomethyl-1,2-benzo-3-suberone (III) with LiAlH₄ gave the corresponding amino alcs. which (III) with ρ -O₂N₂C₆H₄COCl (IV) to *p*-nitrobenzoates, and these hydrogenated over PtO₂ to the corresponding *p*-aminobenzoates whose hydrochlorides are effective local anesthetics. Adding 18 g. of the HCl salt of I during 20 min. to a suspension of 1.8 g. LiAlH₄ in 400 ml. Et₂O, refluxing the mixt. 10 min., decompg. with 20 g. NaOH in 250 ml. H₂O, sepg. the Et₂O layer, extg. the aq. layer with seven 70-ml. portions of Et₂O, evapg. the ether soin., and treating the residue (14 g.) with HCl in Et₂O gave 11.1 g. HCl salt of 2-piperidinomethyl-1-indanol (V), m. 202-3° (from EtOH). Similar reduction of the HCl salt of II (24 g.) with 2 g. LiAlH₄ gave 10 g. of the HCl salt of 2-piperidinomethyl-1-tetralol (VI), m. 98-100° (from petr. ether). Refluxing VI with dil. HBr gave HBr salt of piperidine, m. 230-2°.

Reduction of 14 g. of the HCl salt of III with 1.2 g. LiAlH₄ gave 10.4 g. 4-piperidinomethyl-1,2-benzo-3-suberol-HCl (VII), m. 205° (from EtOH-Et₂O). V.HCl (5 g.) was treated with 60 ml. satd. soln. of Na₂CO₃, the base extd. with CHCl₃, the ext. evapd. the residue dissolved in 75 ml. CHCl₃, treated with 3 g. IV in 75 ml. CHCl₃, and the soln. allowed to evap. to give 2-piperidinomethyl-1-indanol *p*-nitrobenzoate-HCl (VIII), m. 164-6° (from EtOH-Et₂O). Heating a mixt. of 4 g. VI and 3 g. IV in 25 ml. C₆H₅N 3 min. to 100°, decompg. the mixt. with soln. of NaHCO₃, and treating the product with ethereal HCl gave 2-piperidinomethyl-1-tetralol *p*-nitrobenzoate-HCl (IX), m. 182-3° (from EtOH-Et₂O). Treatment of 3 g. VII with 2.2 g. IV in 50 ml. CHCl₃ gave 4-piperidinomethyl-1,2-benzo-3-suberol *p*-nitrobenzoate-HCl (X), m. 207°. Hydrogenation of the HCl salts of VIII, IX, and X over PtO₂ in EtOH gave after alkalization and ether extn. 90% 2-piperidinomethylindanol *p*-aminobenzoate, m. 140-1° (from EtOH-petr. ether), 75% 2-piperidinomethyl-1-tetralol *p*-aminobenzoate, m. 139-41°, and 60% 4-piperidinomethyl-1,2-benzo-3-suberol *p*-aminobenzoate, m. 143-4° (from EtOH).

M. Hudlický

ŠIMÁK VLADIMÍR

Syntheses in estrogenic hormones group. VIII. The
chemistry of 2-methyl-2-carboxy-6-hydroxycyclohexanone
derivatives. Miroslav Protiva, Jiri O. Jilek, Ludvik
Novak, Edita Adlerova, Vladislav Šimák, and Eduard
Knobloch. Collection Czechoslov. Chem. Commun. 21,
159-80(1956)(in German).—See C.A. 50, 4048A.

E. J. C. 6

SIMAK, Vladislav, inz.

Cyanoethylation of wool. Nova technika 2 no.4:115 Ap '57.

ŠIMAK, Vojtěch

.2149

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S/056 '61/040/005/...-7031
B113/8202

AUTHORS: Pernegr, Ya., Sedlák, Ya., Tuček, I., Šimák, W.

TITLE: Successive interactions of heavy nuclei of primary cosmic radiation

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 40, no. 3, 1961, 978-979

TEXT: Preliminary results have been obtained by means of nuclear emulsion plates which had been irradiated. 6 pairs of successive or parallel interactions of heavy nuclei have been found. Their characteristics are given in the table. N_h denotes the tracks of the emanation particles, Z the charge of the incident nucleus, Z_i the charges of the fragmentation products, γ_c is determined from the relation

$\log \gamma_c = \log \operatorname{ctn} \theta_1$. n_1 and n_2 are the particle numbers in narrow and/or wide cones, which spread with respect to the quantity γ_c and n_1 and n_2 are the particle numbers in cones which spread with respect to the quantity

Card 1/4.

Successive interactions at

5/186/6*/01 103/629/01
B115/B202

γ'_c where $\gamma'_c = (\gamma_1 \gamma_2)^{1/2}$. It is of interest that the values γ'_c of single interactions mostly diverge in one pair; since the energies for both incident nuclei must be equal in the laboratory system, the difference of the values γ'_c results from unequal effective masses of interacting nuclei M_1 and M_2 on the condition that they interact like bodies. Case 208a,6 shows that on the reduced condition $M_1(a) \cdot M_2(a) = M_1(\delta) \cdot M_2(\delta)$ the ratio of the effective masses is equal to the ratio $\gamma'_c(a) / \gamma'_c(\delta) = 9$. The ratio of the effective masses in the case concerned is extremely high so that it is difficult to use a hydrodynamical model to which a continuous curve corresponds in the integral distribution. The ratio for the value γ'_c is smaller than for the values γ'_c ; the asymmetry of the numbers of the emitted forward- and/or backward-scattered particles increases especially in cases with large anisotropy. Such an asymmetry was observed in the case of the interaction 208a,9, 191 etc. The number of emitted particles seems to be proportional to the effective mass of the interacting nuclei. There

Card 2/4

2/149
S/056/61/040/003/029/031
B113/B202

Successive interactions of...

are 1 figure, 1 table, and 2 references: 1 Soviet-bloc and 1 non-Soviet-bloc.

ASSOCIATION: Physics Institute of the Czechoslovakian Academy of Sciences, Prague

SUBMITTED: January 7, 1961

X

Legend to the table: 1) Successive interactions. 2) Parallel interactions. 3) The values of the angular distribution of the particles for the case 203 were made available by Doctor E. Fenyves of Budapest. The cases 203a and 203b are described in the papers by G. Biczó, G. Bozóki, E. Fenyves, E. Gombosi, J. Pernegr, J. Sedlák (Ref. 1: Internationale Arbeitstagung über die Physik hoher Energien, Weimar, 1960, p. 85).

Card 3/4

SIMAKHIN, Ya.

How we built a universal conveyor. Mias. ind. SSSR 29
no. 446 '58. (MIRA 11:8)

1. Kurganskiy myasokonservnyy kombinat.
(Packing houses--Equipment and supplies)
(Conveying machinery)

REKHINOV, V. A., KINZHELOV, K. DOLGOT; U.S. AIR, INSH.

Pulling force exerted in machining cylindrical holes with
multitooth broaches. V. A. meshinostr. 42 (1), 4:65-68 Apr '64.
(MIRA 17:5)

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001550620004-8

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APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001550620004-8"

VALERY TSYKOV, Yuryev, Udmurtia, Russia

Machinist skilled with a multiteeth sawmill. Mashinostroitel'
no. 3, Volgograd, Russia.
(MERA 17:10)

SIMAKHIN, Yu.

Drying apparatus for plaster. Pozh.delo 8 no.1:15 Ja '62.
(MIRA 15:1)
(Plaster--Drying) (Fire prevention)

SIMAKIN, A.

Lecture propaganda in a school. Prof.-tekh. obr. 19
no. 5:21 My '62. (MIRA 15:5)

1. Pomoshchnik direktora po kul'turno-vospitatel'noy rabote
stroitel'nogo uchilishcha No.5, Stavropol'skiy kray.
(Communist education)

LUK'YANENKO, P., akademik; DRAGALIN, P.; SIMAKIN, A.; DUBONOSOV, T.

Fertilize the entire area under winter wheat. Zemledelie
(MIRA 17:5)
26 no.1:23-26 Ja'64.

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